

Reductant Pump and Heater Assembly

Special Tool(s) / General Equipment

 E80148	310-123 Locking Ring, Fuel Tank TKIT-2004J-F TKIT-2005U-LM
---	---

Removal

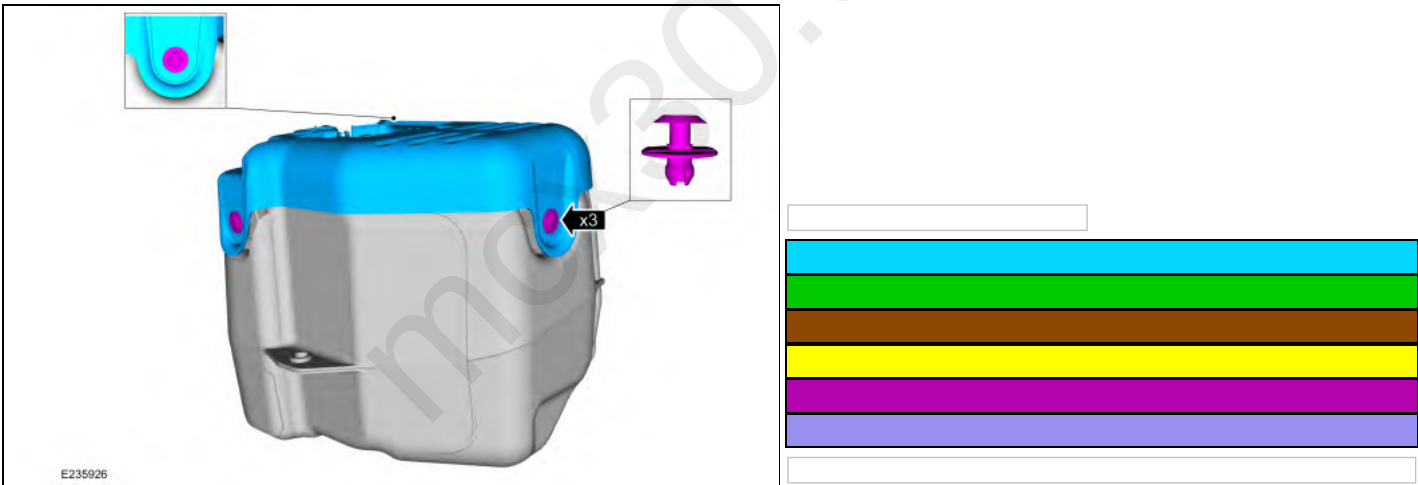
All Vehicles

- NOTICE:** SCR components are very sensitive to external contamination. Any possible measure should be taken to prevent contamination from entering the system while servicing it.
- NOTICE:** Discard the drained reductant fluid. Always refill the reductant tank with new reductant fluid to avoid reductant system contamination.
- NOTICE:** Fresh reductant fluid should be the only lubricant used in the assembly of these components. The use of any other lubricant, **ESPECIALLY PETROLEUM BASED LUBES**, may cause damage to the system.
- NOTICE:** Reductant fluid can corrode some metals. Reductant fluid must be stored and transported carefully. Reductant fluid must be disposed of according to local regulations.
- NOTICE:** Petroleum contamination will cause permanent damage to the reductant system.

1. Remove the reductant tank.
Refer to: Reductant Tank - Crew Cab (303-08B Engine Emission Control - 6.7L Power Stroke Diesel, Removal and Installation).

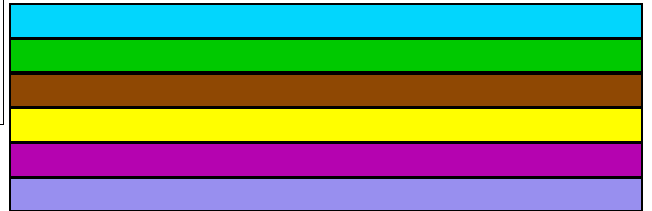
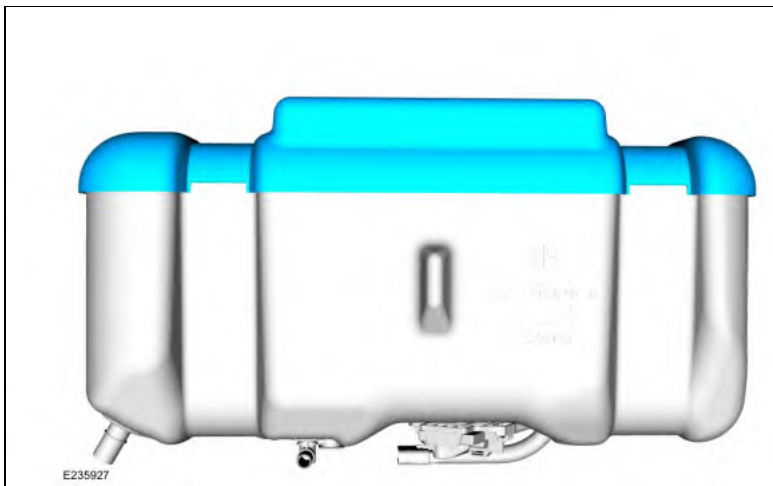
Inboard Frame Mounted Reductant Tank

2. Remove the pushpins and the lower reductant tank cover.



Outboard Frame Mounted Reductant Tank

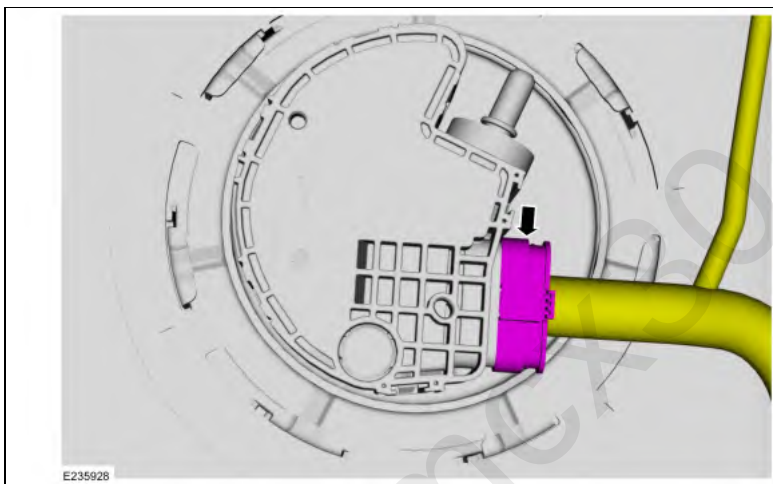
3. Remove the lower reductant tank cover.



All vehicles

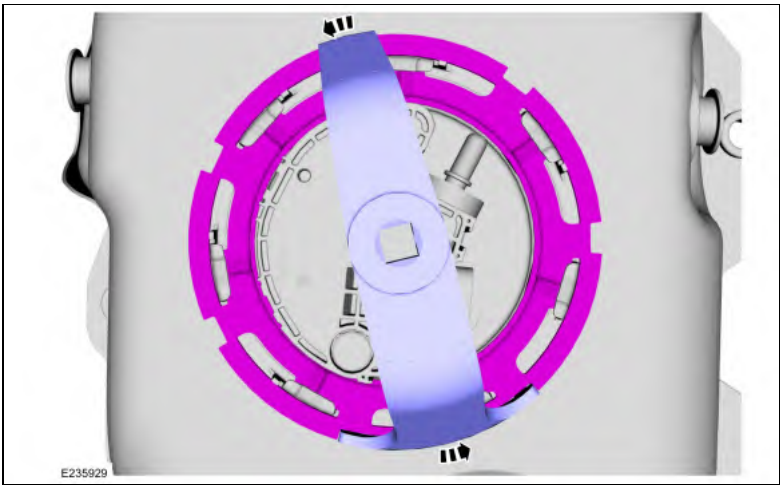
4. **NOTE:** *Inboard frame mounted reductant tank shown, others similar.*

- Disconnect the reductant pump and heater assembly electrical connector.
- Use clean low pressure water to remove any foreign material from the reductant pump and heater assembly and surrounding area before removal. Use regulated low pressure compressed air to remove the residual water from the reductant pump and heater assembly.

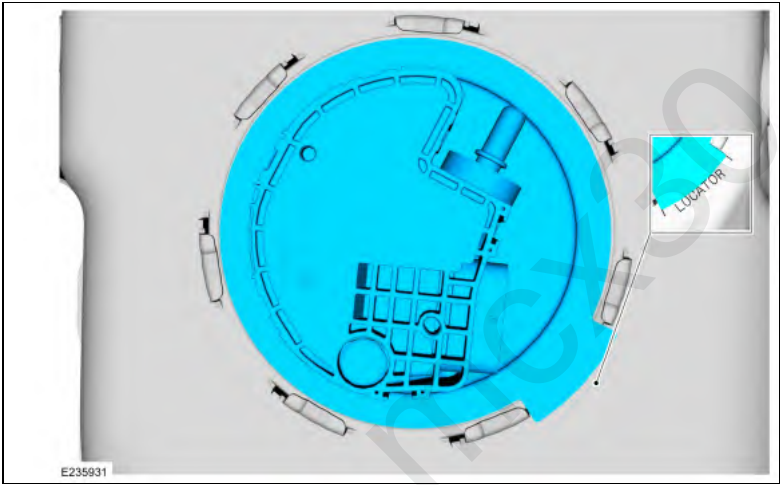


5. **NOTE:** *Inboard frame mounted reductant tank shown, others similar.*

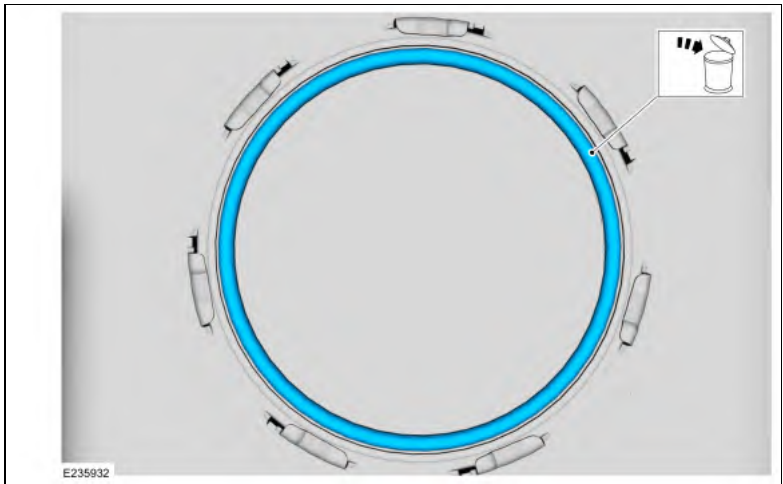
Using the Fuel Tank Locking Ring wrench, remove the reductant pump and heater assembly locking ring.
Use Special Service Tool: 310-123 Locking Ring, Fuel Tank.



6. **NOTE:** Inboard frame mounted reductant tank shown, others similar.
- NOTE:** Note the orientation of the reductant pump and heater assembly locator tab for installation.
- Remove the reductant pump and heater assembly from the reductant tank.



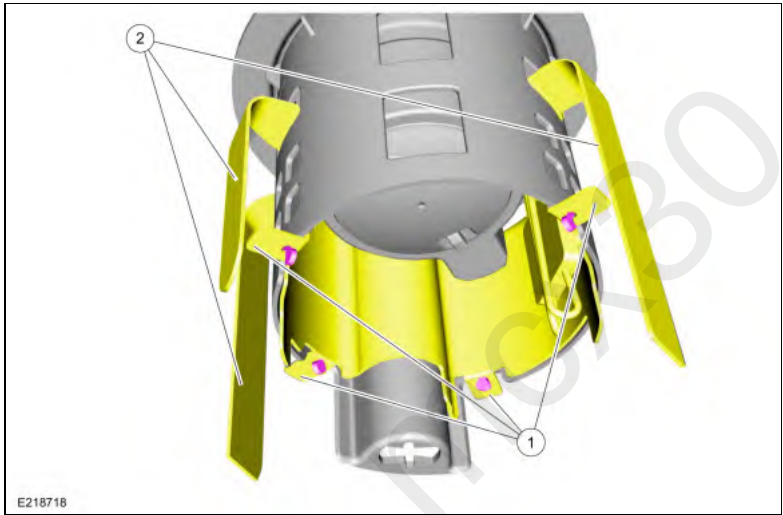
7. **NOTE:** Inboard frame mounted reductant tank shown, others similar.
- Remove and discard the reductant pump and heater assembly seal.



Installation

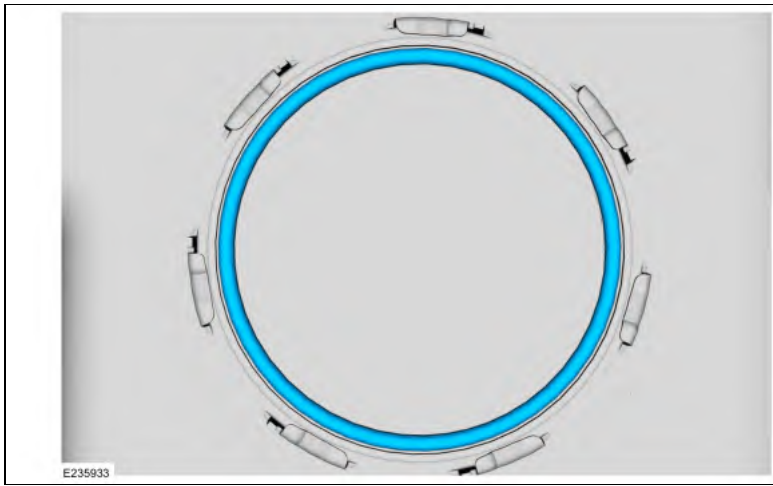
All vehicles

1. Make sure the reductant heater is properly secured by the locating tabs.



2. **NOTE:** *Inboard frame mounted reductant tank shown, others similar.*

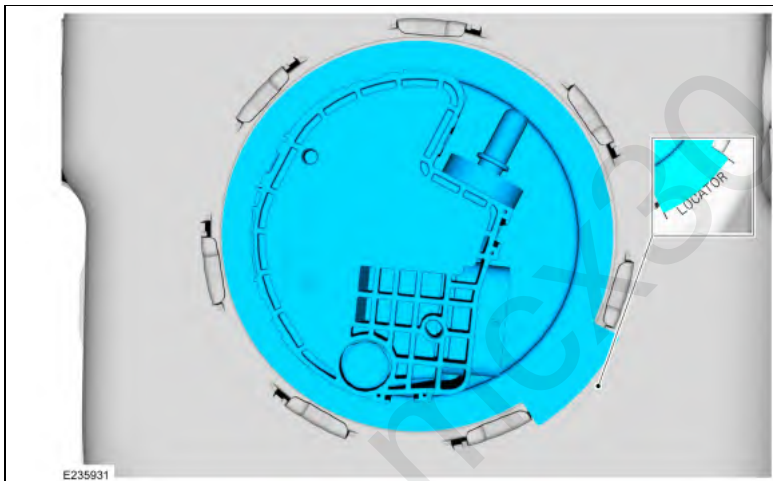
Install a new reductant pump and heater assembly seal.



3. **NOTICE:** During installation of the reductant pump and heater assembly, make sure the reductant heater legs are properly located inside the reductant tank and they do not get trapped under the reductant pump and heater assembly. Failure to do so may cause a reductant system leak.

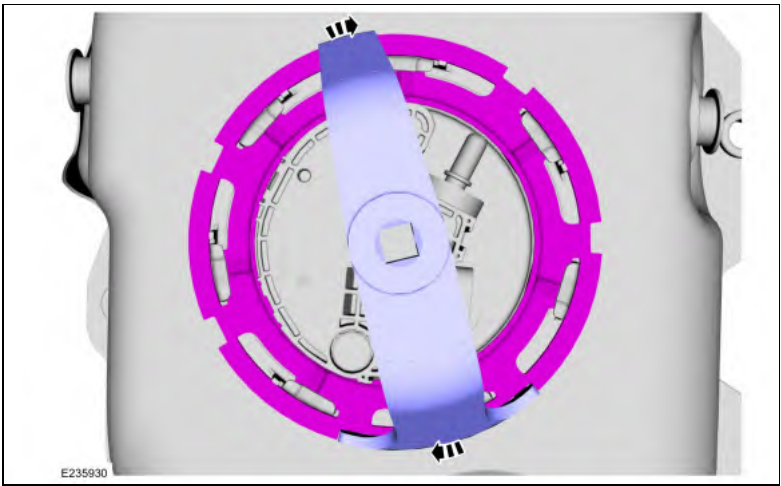
NOTE: Inboard frame mounted reductant tank shown, others similar.

Install the reductant pump and heater assembly into the reductant tank aligning the locator tab noted during removal.

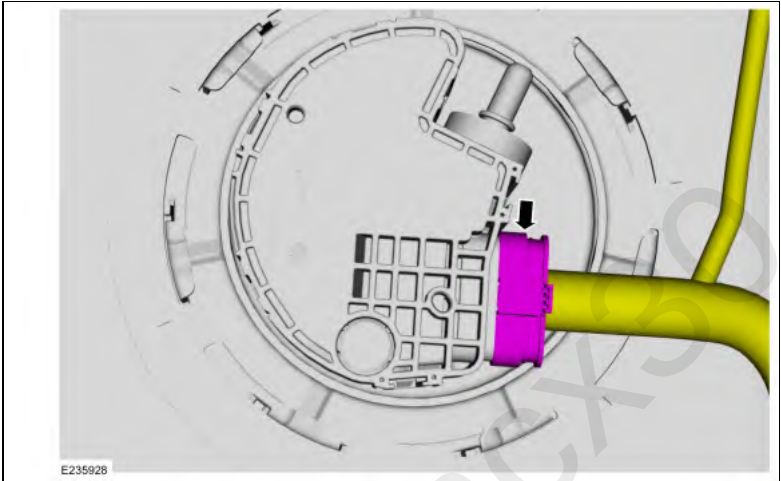


4. **NOTE:** Inboard frame mounted reductant tank shown, others similar.

Using the Fuel Tank Locking Ring wrench, install the reductant pump and heater assembly locking ring.
Use Special Service Tool: 310-123 Locking Ring, Fuel Tank.

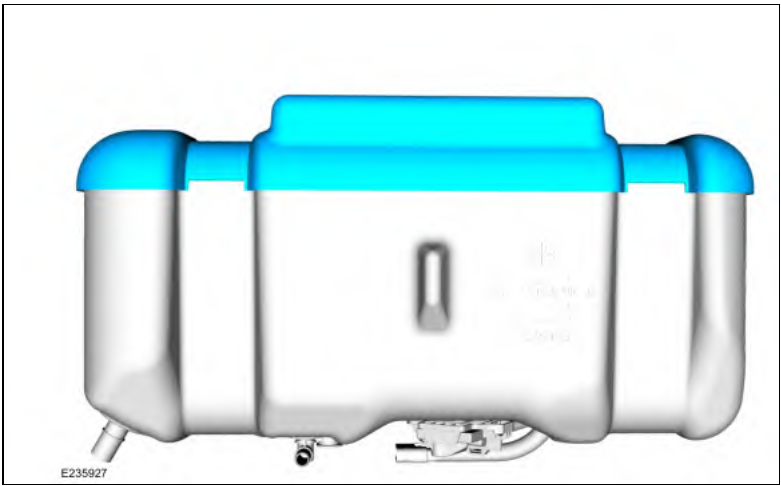


5. **NOTE:** *Inboard frame mounted reductant tank shown, others similar.*
Connect the reductant pump and heater assembly electrical connector.



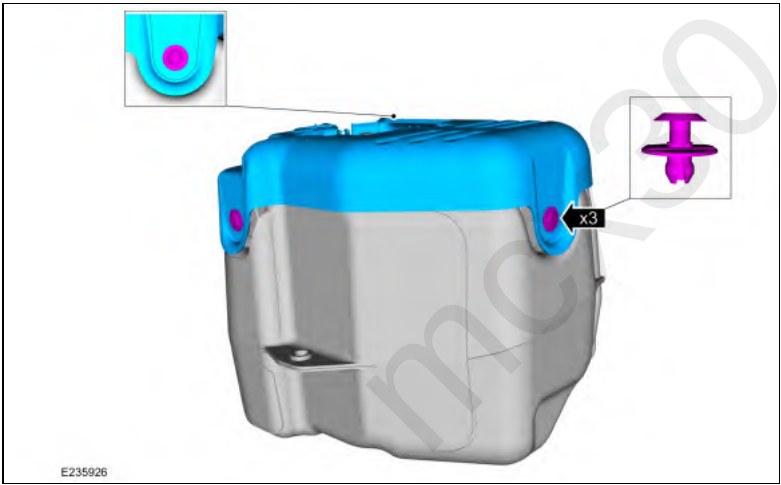
Outboard Frame Mounted Reductant Tank

6. Install the lower reductant tank cover.



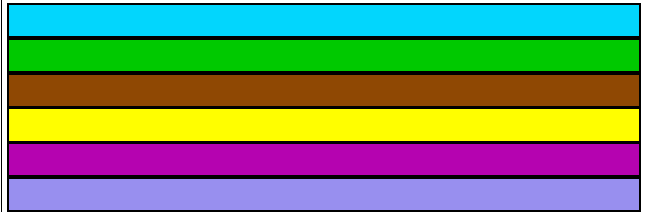
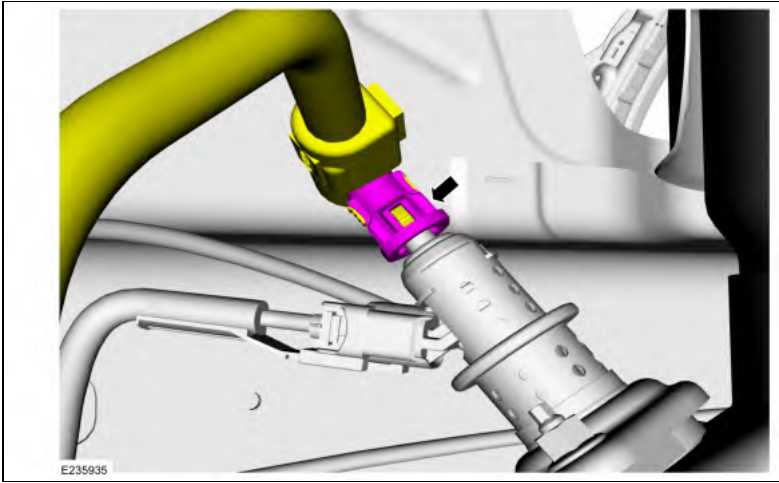
Inboard Frame Mounted Reductant Tank

7. Install the lower reductant tank cover and install the pushpins.



All vehicles

8. Install the reductant tank.
Refer to: Reductant Tank - Crew Cab (303-08B Engine Emission Control - 6.7L Power Stroke Diesel, Removal and Installation).
 9. **NOTE:** As much as 12 oz of fluid will be discharged from the reductant pressure line during this procedure. Discard the discharged fluid.
- If a new reductant pump and heater assembly was installed, prime the new reductant pump and heater assembly.
1. Disconnect the reductant pressure line from the reductant injector and place the line in a clean container.
 2. Using a diagnostic scan tool, perform the SCR visual check for a minimum of 2 minutes.
 3. Connect the reductant pressure line to the reductant injector.
 4. Using a diagnostic scan tool, perform the SCR visual check and check for leaks.



mcx30.com